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250 260 270 280

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E F A M S L R K K K C P L K N K N D R N A G E F S T S S R F D N D Y Y K R I L T M F G S
F A S S L R Q V C P M N T V K N A G S F L D T S P T V F D N A Y Y K M I L V Q F S
V K S Q C P S S G G D N T L S P D V T S P T S F D N A Y Y R N L V S Q K G L L H
Y F D M L F G Y E W E K V K S P A G A W Q W V A K D V H N P K K R Y P P I M T T
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Y A M Q L R Q M C P R I A I N M D P S T P Q R F D N A Y Y K N L Q Q G K G L F S
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F F K K L L D M N V S W R P N G N N A Y E G V D K T S G E V V R T A S
F A N H L F L T C P T N T S V N T T N L D I R S P N V F D N K Y Y V N L T L F T
L L E D L Q S Q C C S P N N A S D T S T N T T N Y F D N V Y Y K N L I N N L G L L K
F L Q N L R Q V C P N Q A D S D T A P L D S V T S T K F D N F Y F K R L G L L Q
T L T K L Q R V C P N Q A D S D T A P L D S V T S T K F D N F Y F K R L G L L Q
Y F E N L F K Y D Y E L V K S P A G A F Q W H P P D V E D P N Q K V T T L M L T
F F K N L F E F E Y E L T Q S P G G A N Q W I A P D A H D P N V K H P T M L T
F A A S L R R V C P A R N K V K N A G S T M D S S S T V F D N A Y Y K L L L F S
F F E N L F N Y E W E L T K S P A G A K Q W V A K D A P E P G K F H K P T M L T
Y L N T L F K Y E W E L V K S P A G A H Q W M I V D A H D P S K K H R P M M T T
Y L K V L F K Y E W E L V K S P A G A N Q W M V V D A H D P S K K H R P M M T T
E K D G L L Q L P
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Y A D Y L K S K C P Q P S S S P D V D L D F S T P H R L D N R Y Y N H R G L L I
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F N T S L Q S S C P S N G D T N N Q T P T S F D N R Y F R N L Q N H R R G L L F
N Y A Y M L I Q Q G C P I S G E D Q N V T P N K F D N Y Y F K N L Q N F R G L L N
F F V N L V D M S T V W K K S D T E A G L Y K G L D R N S G K V K W T A T S
Y L D N L F R Y D W E L T T S P A G A K Q W T P T D P H D P S K R H A P M M L T
Y L E E L R Q I C P Q G G N S S D P T T P D G F D N N Y F T N L Q V N R G L L R
F L E T L Y R G H E W E M T K S P A G A W Q W I P P D A H D S S K S H P V M L T
G A A Q I L R N C C P K P N V D K N A G Q F P T S S T F D N V Y Y K R L G V F G
F F E N L F K Y E W V Q E K S P A G A L Q W V A K D P T P D S P K R R P T M L T
Y F D M L L G Y E W E L T K S P A G A H Q W T P V N I R D E D K K V Q V P M M T T
Y A Q Q L I Q A C S D P N P D A V V D I D L T S R D T F D N S Y Y N L G L F T
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L L Q N L V K L C P N Q A D S D T N P L D P V T T N T F D N M Y Y K N L G L L Q
F F A N L L D L G K T W K P L D P G S H A F E G R I D G T D E V F G R G L R
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L A T S L K S N C P N T G S D D G A T T P V T F D N S Y F K N I A N K G L L H
Y F R M L F E Y D Y E L T K S P A G A Y Q W E P K N V D D S K K V S T I M L T
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Y F D M L L D H E Y E I V T S P A G A H Q W Q P P G A H S P E K R V P T M M T T
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F A I E S L K Q L C S A P S S S T Q L D L V T P A T F D N Q Y Y I N L G L L Q
Y A A G L K K C P V T S A H D D P T D D V T P A M D N Q Y Y K N V V A F G
L Q A N C P S S G G D N T L S P D T Q T P T T F D N A Y Y T N L V N K K G L L H
S F L A Q L R A L C P K D G D G D K D S Q S K F D A S F F K N V R D G N G V L E
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F K Y I T A I K A A V E R E C P P A T V S C A D I L A L A A R D G V A M L I G G
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90 100 110 120

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Q N L D K A R L R L D P I K T K Y D S L S W G D L T V L A G N V A P C E V D G Q
T T L R G F S F I D G V K E C P G V V S C A D I V A L V A R D S V V V T G G P
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V S L D K A R R L L W P V K K Q K Y S K I S W A D L I I F A G N C A L R D S M M W G
L G I D E I V N A Q A P F I A G H N V T P G D F I Q F A G A V I G L S N C P G A
A Q L A K V L Q A L E G V S Q K S F N D A Q Q A D L I V L A G N A A V E K A A H S
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S Q L Q E V F G V L E K V Q K D S G K Q V S M A D L I V L A G S A A I E Q A S G
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I G L E G F D L I D M I K G K L G E S V S C A D I V V L A A R D A T Y L S R G
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130 140 150 160

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Y K A P L G P T T L G L I Y V N P E G P M G N P D D P S V N D I R D T F N R M G M
Y W K V P T G R R D G G R I S N A S E A L A N I P P T S S V S S Q D T S F A S K G
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G Y D V P L G R R D S L T P A T A Q G L P G P D F N V G Q L V R T F A D R G
E E D V W L G R T D K R Y S G K R D L A Q P Y G A T T M G H D I R E T F A R M M
P R L E F L L G R P A A T Q P A P D L T V P E P F Y T V D T I L A R F A D A G N
V T V P F T P G R G D A S Q E Q T D I E S V S H L E P F A D G F R N Y G H S T D
V D I L F F E P G R T D A S Q E Q T D V E S F E V L E P T A D G F R N Y A D L L N
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I T V P F A P G R G D A S Q E M T D V D S F Q Y L E P L A S D G Y R N V K K M M
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P F W P V A L G R R D D R V S S A T E R A S S E L P P A S G D V P A K I F A S K G

N Y A V P A G R R D H V S N V D E V A Q N L P P F F F N A Q Q L A D N F A R K G
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E L W E V Q L G R R D G V E S R A A E A L A E I P S P S A N F T A L E A G F K G
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Y Y K V R R K D G L V S K A S R V E G N L A R A N Q T M D S I I N L F A A K G
V E I P F R A G R V D A T G P G S G V P R P E Q P L D E H I S S F Q K G G F
R V D F D R L D G L V S S A D E A Q A E I P D P T L T L Q Q L I D N F A R K N
V A V P F T P G R G D A S D E M T D A E S F A P L E P L A D G F R N W Q K K D Y
V T V P F A P G R G D A T Q E M P I H D G Y R N W V K D Y V V S A E E L M L D
S W E V Q L G R R D G T T A N I S G A N N L P G P V D T L A V L L S K F A A V G

W Y D V E T G R R D G N V S L A S N V N L P A A T I S V S D S T K L F A S K N
V E F G R R D N P S S A S V A A A V D A I P S P N L T A T Q L I E S F Q K R G
P S W D V R L G R R D S T T A S L S G A N S Q L P S P A F T V N Q L I F T A K G
S F D V P T G R R D G K T S S L R D A D V L P D V K D S I D V L R S K F A A N G
D A T E E M T D A D S F A D L E P I H D G Y R N W L K Q D Y A V S A E E L M L D
S W K V K L G R R D S T T K D L A E Q N L P I A F D D L D T L T S V F A R Q G

S W A V P L G R R D A L S P S R S A V S T D L P G P E A D I S A V S A F A A K G
V D F A V P A G R L A G V V S R S R D A D T Y L P D A A S N L T D R N F R R K N
W R V P T G R R D G R V S L K Q E A L D Q I P A P T M N F T D L L T S F R A K G
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F T P G R T D A S Q E Q T D V E S V G H L E P I A D G F R N Y R G T K F G V S T
P Y G V P A G R R D G N V S A S D A Q A S L P P T A R N Y A H L T E F G K N G
P N L M S I I G R V D A T Q P A P D G A L V P E P F D D A D K I L L A R F A D A G D

F Y D V P T G R R D G R L S R M S L A E N L P D V D D S I H V L K S K F R A K G
S W E V K L G R R D S T T A S V A Q A N Q D L P P P F L D V G L N A S F A G K G
L R S P V K T G R K D G F V S L A S N V D L P S S T I S V S Q S I D K F K L K G
L V V P F T P G R N D A T Q E H T D V H S F T H L E P H A D G F R S Y G K G T K
P T I P V A L G R L D S T E P D P E G K L P Q E T Q N A S A L K Q G F Q R K G
P R Y E V Q L G R L D G T V S Q A W M A A D L P G P D V D I P T A I M F A K K T
A T Q E W T D V E W F D A L P Q A A D G F R N Y R M P P E H L L I D R A A L L T
P Y Y Q V K T G R W D G K L S N A S R V R N H N S V P G S N A T V A L F R S K G
K I E Y K L D G G L K D A A A D A N L P E S T F D F T D L R N N F A A S G R G
D I I P Y M K F G R K D P E E C P A G R L P M P E G A D H L R K I F Y R M G
V S L G Q K D S L A P A P V R L V N Q L P G P G T S S V I Q A L L D K F G S K G L
Y Y P V F T G R R D S L R S Y F Q E A T A E I P G P D D D L N K I H L F S L R G
V K V P F I A G R G D A S Q E Q T D V E S F S V L E P H S D G F R N F H K E M M
F N F H M P S G R L D G F R S T A D E V F Q G I P S P A F Q L Q E L L F A T K G
S W T V P L G R R D S T T A S A S L A N S D L P G P S S S R S Q E A A F L K K N
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V S V P F T P G R T D A T E E Q T D A K S F E H L E P A T D P F R N Y G K S S R
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P E V P V F F G R I D T G V P D P N G L I P A P T L S V Q E L I S A F E P I G F
T W P V L L G R R D S T T A S K T N A E N D L P P P T F D Q N L T T S F A N K Q
V P V P F V P G R N D H L E P Y A D G F R S Y G K G S E R V T T E Q F A N Q L T
F T P G R T D A S Q E Q T D V E S F G F L E P I A D G F R N Y L K G R Y R V S T
F A M P A G R Y D G N V S L A S K T L P N L P P P F A D V P R L K A M F A A K G
P T L N A F I G R K D A T Q A A P D G L V P E P F H D V N T L L A R F N D A G D
R Y E V E T G R R D G N V S M L I E A L T N L P P G D G N V T V L T Y F A V K N
P T I P I R T G R I D A T A A G P I G V P L P Q N S Q Y T F I Q Q F S R M G F
I P I E L P I E K S V V E P S I Q S P G I P R E M E G F P A L L I R F R R A G
Y L E V L N G R R D A V S A K K E R A D N Q L P T Y D I S V S E F L V F L Q K N

L K V P F I P G R T D A T Q E Q T D I E S F S H L E P R I D G F R N Y G K S T S
P S Y P V L T G R R D G L K S S R S S V D L P S P S I S W Q A S L D Y F K S R G
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170 180 190 200

LGVVA D L V A L S G A H T L G R T T C M F V S P R L Y T F Q G N G G V I E P R
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F S L T D M V A L S G G H T I G M A C C Q N F R N R L Y N E P N I N T T
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L S A P E L T A L I G G L R V L E A N Y D G S S Y G V L T K T P G K L D N D
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L N S F D M A I L M G A H T V G V T H C S V I K D R L Y N F N G T D P S M D N
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L S A R D L V V L S G A H T I G Y A H C Q S V A N R I Y D Y E R A E P D I D P R
F T V K E L V A L S G A H S I G V A H L S S Y Q D R L A A D A T P I D S D
F N D Q E I V A L S G G H S I G R A F K D R S M K G G R S W C R K W L K F D N E
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F S P R E T V S L I G A H N I G K I S C Q F I R N R H Y D F S P D P T M S D D
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R V J R T E Q F L I D R A H L L T L T R V L N Q S W D G S S F T K R P G Q L T N D
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L S M T D M V A L S G A H T L G Q S C R F F R N R I N N E A N I N T A F A T A
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F D E L E T V W F L I A H S V A A Q N D I D P A V S H A P F D S T P S V M D G Q
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N V S E M I A L T A C G H T I G G V H A S N F P P N D Y Q H F D S T T K F D E K
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H G S G K A G D A L T S G L E V V W T S K P T E W S N L
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L N V L D M T T I L I G S H S M G K T H C R F I L D R L Y N F N K P D P N M G P S
F T Q T E L V V L S G A H A V G V A H L S S F R D R L D N T V P D P T E M N I
M S T R E T V A I I G A H S L G T T R L Q S S G F R G P W A P D T D R F D N G
I D T P G L V A L L I G A H S V G R T H C V K L V H R L Y P E V D P V L N P D H
L D V R D L V W L S G A H T I G I A H C S S F A D R L Y S Y P T A G N P L D A A
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L N V R D L V V L S G A H T I G K A S C A A V K P R L C K S K P E T L D G K
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N V S E M I A L T A C G H T I V H A N N F P E V L Q S G T V P N D Y Q H F D T T
L S A P Q M A A L I G G M R A I G I N A G D N N T D G I F T Q R P G Q L T N D
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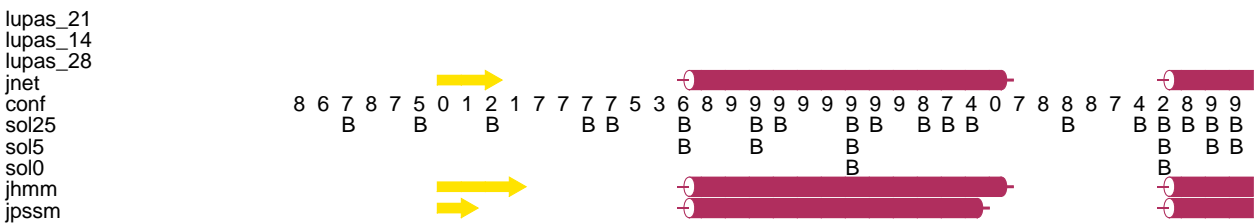
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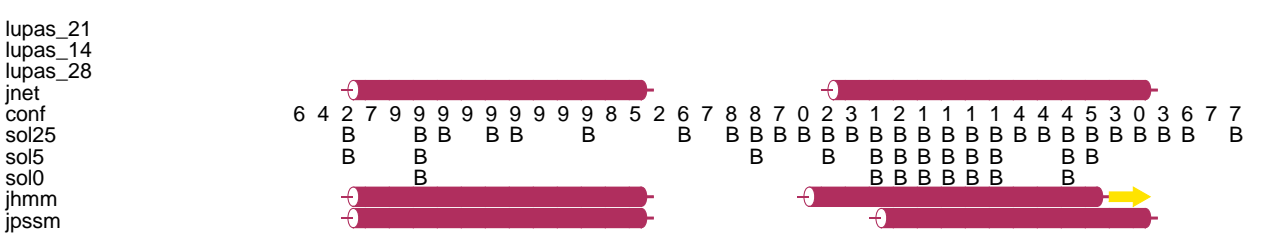

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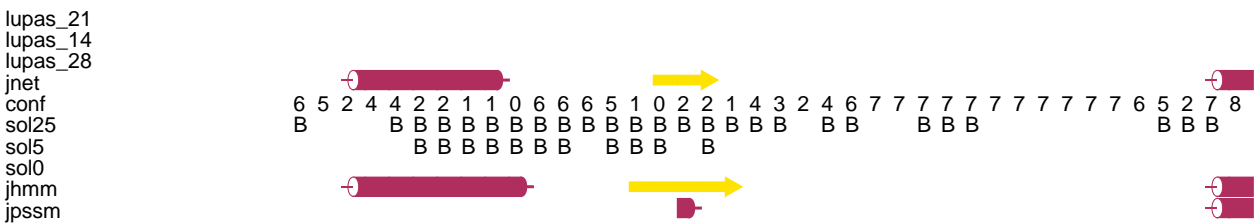
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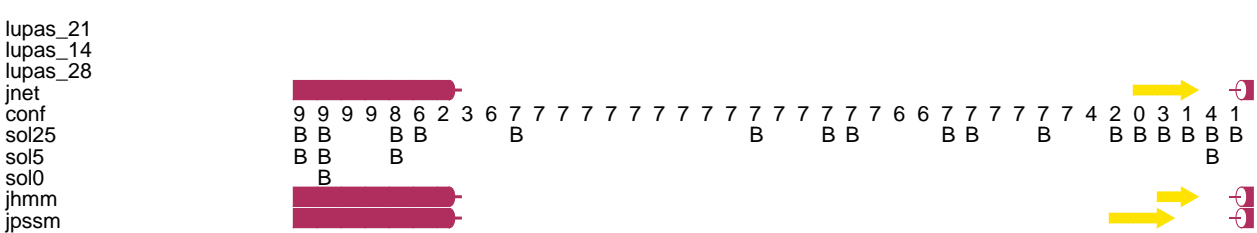
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UniRef90_UPI0002B43B17				
UniRef90_B7FIW7				
UniRef90_K2RQM6	A D G		N A T V R A L A D P D T F N S V C A R M L Q K M I D V	
UniRef90_T0MUP8	V D L I I G S H S E L R A V A E I Y A S S K E K F I K D F I S A W V K V M N L			
UniRef90_C1BZY3	T D I N L V R D I T V D P V T G F S S S P R I F A Q S Y A K T F I K M I T L G			
UniRef90_M8C8J5	S D Q V L Y N A G A T E G I V N G F A S S Q A A F F S A F A S A M V K M A N L G			
UniRef90_M1B6G3				

lupas_21			
lupas_14			
lupas_28			
jnet			
conf	7 8 8 8 7 4 3 7 6 0 8 9 9 9 9 9 8 6 0 6 7 0 7 8 8 9 9 9 9 9 9 9 8 8 6 3 2 6 7		
sol25	B B B B B B B	B B B B B B B	B B B B B B B B B B
sol5	B B B	B B B B	B B B B B
sol0		B	B B B
jhmm			
jpssm			

		290	300	310	320
UniRef90_B6U2S5					
UniRef90_W9CM91					
UniRef90_Q0TWP9					
UniRef90_UPI0002B41160					
UniRef90_B8BXD7					
UniRef90_W6ZD16					
UniRef90_C6TGM1					
UniRef90_M1C3S9					
UniRef90_K0T631					
UniRef90_UPI00019248FF					
UniRef90_E1ZTJ2	A R W				
UniRef90_W5E3G4					
UniRef90_A0A016PGD4					
UniRef90_S3CTY2					
UniRef90_UPI0002B43B17					
UniRef90_B7FIW7					
UniRef90_K2RQM6	D R F D				
UniRef90_T0MUP8					
UniRef90_C1BZY3					
UniRef90_M8C8J5	S Q G Q				
UniRef90_M1B6G3					

			I D T	V P A A	V T L S	E V I T	P L E V	K P W G	I S L T	L A
			V P G D	V T L S	E P L E	P A D I	R P F I	T Q Y A	L N	
				V P G D	V T L T	E P L Q	P T E I	K P V D	F S V R	I R
				I D T V	P K S V	Q L S D	V I S P	Y D V K	P Y V T	E L S L
			V N T V	P A A V	T L S D	P V V V	R P W T	M L E S	Q L D L	T
				V P T G	V V L T	D P I S	I Y D V	K P S G	L Q L T	L L

